

WEST**End of Result Set**

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L10: Entry 13 of 13

File: USPT

Mar 29, 1994

DOCUMENT-IDENTIFIER: US 5298422 A
TITLE: Myogenic vector systems

DATE FILED (1):
19911106

Brief Summary Text (25):

For specific embodiments the cassette contains the nucleic acid sequence for the insulin like growth factor 1, insulin like growth factor II, insulin growth factor binding protein, growth hormone releasing factor, apolipoprotein A-1 or a protein capable of inducing an antibody response.

Detailed Description Text (10):

The 3' untranslated region of the chicken skeletal alpha actin gene which starts at nucleotide 2060 and extends to 2331. The complete 3' untranslated region and contiguous noncoding DNA extends an additional 2.0 Kb. This 2.3 Kb fragment can be linked immediately following the natural translation termination codon to a copy DNA sequence coding for a polypeptide desired to be expressed.

CLAIMS:

17. The MVS of claim 1, 3 or 8, wherein the expressed nucleic acid sequence codes for insulin like growth factor I, insulin like growth factor II or insulin growth factor binding protein.

20. The MVS of claim 11, wherein the expressed nucleic acid sequence codes for insulin like growth factor I, insulin like growth factor II or insulin growth factor binding protein.

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L10: Entry 12 of 13

File: USPT

May 26, 1998

DOCUMENT-IDENTIFIER: US 5756264 A
TITLE: Expression vector systems and method of use

DATE FILED (1):
19940309

Brief Summary Text (40):

Specific examples of these compounds include proinsulin, insulin, growth hormone, growth hormone release factor, androgen receptors, insulin-like growth factor I, insulin-like growth factor II, insulin-like growth factor binding protein, erythropoietin, clotting factors (VII, VIII, IX, others), chorionic gonadotropin, prolactin, endorphin, enkephalins, epidermal growth factor, TGF-.alpha., TGF-.beta., nerve growth factors, dermal growth factor (PDGF), angiogenesis factors (e.g., acidic fibroblast growth factor, basic fibroblast growth factor and angiogenin), antiangiogenesis factors (interferon-.alpha., interferon-.beta., interferon-.gamma., thrombospondin), brain growth factors, ciliary growth factors, matrix proteins (e.g., type IV collagen, type VII collagen, laminin), oncogenes (e.g., ras, fos, myc, erb, src, sis, jun), E6 or E7 transforming sequence, p53 protein, dystrophin, cytokinereceptors, interleukins (IL-1, IL-2, IL-4, IL-6, IL-8, IL-10, IL-12), interleukin inhibitors, viral capsid protein, viral reverse transcriptase, HIV-encoded protein, and antigens from eukaryotic, viral, bacterial, fungal, yeast, and parasitic organisms which can be used to induce an immunologic response.

Brief Summary Text (47):

In a preferred embodiment, the vector described above may have its 5' flanking region and/or its 3' flanking region from myogenic genes, in particular the skeletal .alpha.-actin gene. The 3'UTR of the chicken skeletal .alpha.-actin gene starts at nucleotide 2060 and extends to 2331 (Sequence I.D. No. 1), approximately 0.3 Kb. The complete 3' flanking region with a 3'UTR and contiguous 3' NCR of the gene extends an additional 2.0 Kb. This 2.3 Kb fragment can be linked immediately following the natural translation termination codon to a cDNA sequence coding for the protein or RNA to be expressed. As discussed above, these regions can be further and more precisely defined by routine methodology, e.g. deletion or mutation analysis or their equivalents. Preferably, the vector contains such a 3' region or 5' region comprising, consisting, or consisting essentially of the regions disclosed above. The terms "comprising," "consisting," or "consisting essentially of" as used herein (with respect to a vector with the 3' or 5' regions of the present invention) includes those regions as well as those regions above in which the sequence is changed but the desired vector activity remains equivalent. Such a change, for example, could be a change of ten nucleotides in any of the above regions. This is only an example and is non-limiting.

Brief Summary Text (58):

A fifth related aspect of the present invention features a method for treating disease by transfecting cells with the above-referenced vectors. Disease can include but is not limited to muscle atrophy, atherogenesis, atherosclerotic cardiovascular, cerebrovascular, or peripheral vascular disease, diabetes, neuropathy, growth disorders and hemophilia. These vectors contain nucleic acid sequences coding for proteins or RNA. The sequences can encode for insulinlike growth factor I, insulin-like growth factor II, insulin growth factor binding protein, growth hormone, growth hormone release hormone, androgen receptors, mutant androgen receptors or derivatives thereof, apolipoprotein A-I, lipoprotein lipase, or the VLDL-receptor, nerve growth factor, or brain derived neurotropic factors. These are only examples and are not meant to be limiting. "Receptor" as used herein includes natural receptors (i.e., as found in a cell in vivo) as well as anything that binds alike and causes compartmentalization changes in a cell.

1 agggacgctg ccgcaccgcc ccagtttacc ccggggagacc atcatgaagc
 51 tgaatggcca ccagttggag aaccatgccc tgaaggtctc ctacatcccc
 101 gatgagcaga tagcacaggg acctgagaat gggcgccgag ggggctttgg
 151 ctctcggggg cagccccgcc agggctcacc tgtggcagcg ggggccccag
 201 ccaagcagca gcaagtggac atcccccttc ggctcctggg gccacccag
 251 tatgtgggtg ccattattgg caaggagggg gccaccatcc gcaacatcac
 301 aaaacagacc cagtccaaga tagacgtgca taggaaggag aacgcaggtg
 351 cagctgaaaa agccatcagt gtgcaactcca cccctgaggg ctgctcctcc
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 1651 aagagggtgg atcacacctc agtggaaga aaaataaaat ttccttcagg
 1701 ttttaaaa

SEQ ID NO: 5



Your request has been successfully submitted and put into the Blast Queue.

Query = (1708 letters)

The request ID is

or

The results are estimated to be ready in 38 seconds but may be done sooner.

Please press "FORMAT!" when you wish to check your results. You may change the formatting options for your result via the form below and press "FORMAT!" again. You may also request results of a different search by entering any other valid request ID to see other recent jobs.

Format

Show ☒ Graphical Overview ☒ Linkout ☒ Sequence Retrieval ☒ NCBI-gi in

Number of: Descriptions Alignments

Alignment view

Limit results by or select from:

Expect value
range:

4191608|gb|AAD09826.1| IGF-II mRNA-binding protein 1 [Homo sapiens]
Length = 577

Score = 829 bits (2141), Expect = 0.0
Identities = 428/445 (96%), Positives = 428/445 (96%), Gaps = 2/445 (0%)
Frame = +2

Query: 32 RGAIMKLNHGHQLENHALKVSYPDEQIAQGPENGRGGFGSRGQPRQGS PVAAGAPAKQQ 211
R AIMKLNHGHQLENHALKVSYPDEQIAQGPENGRGGFGSRGQPRQGS PVAAGAPAKQQ
Sbjct: 133 RQAIMKLNHGHQLENHALKVSYPDEQIAQGPENGRGGFGSRGQPRQGS PVAAGAPAKQQ 192

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Query: 572 SSLQDLTLNPERTITVKGAIENCCRAEQEIMKKVREAYENDVAAMS--SHLIPGLNLAA 745
SSLQDLTLNPERTITVKGAIENCCRAEQEIMKKVREAYENDVAAMS SHLIPGLNLAA
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Sbjct: 373 VGLFPASSSAVPPPPSSVTGAAPYSSFMQAPEQEMVQVFIPAQAVGAIIGKKGQHIKQLS 432

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Query: 1106 RVPASAAGRVIKGGKTVNELQNLTAEEVVPRDQTPDENDQVIVKIIIGHFYASQMAQRK 1285
RVPASAAGRVIKGGKTVNELQNLTAEEVVPRDQTPDENDQVIVKIIIGHFYASQMAQRK
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Query: 1286 IRDILAQVKQHQKQGSNQAQARRK 1360
IRDILAQVKQHQKQGSNQAQARRK
Sbjct: 553 IRDILAQVKQHQKQGSNQAQARRK 577

>gi|21361352|ref|NP_006537.2| IGF-II mRNA-binding protein 1 [Homo sapiens]
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Length = 577

Score = 825 bits (2131), Expect = 0.0
Identities = 426/445 (95%), Positives = 426/445 (95%), Gaps = 2/445 (0%)
Frame = +2

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R AIMKLNHGHQLENHALKVSYPDEQIAQGPENGRGGFGSRGQPRQGS PVAAGAPAKQQ
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Query: 746 VGLFXXXXXXXXXXXXXXXXXGTAAPYSSFMQAPEQEMVQVFIPAQAVGAIIGKKGQHIKQLS 925
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 RVPASAAGRVIGKGGKTVNELQNLTAEEVVVPRDQTPDENDQVIVKIIGHFYASQMAQRK
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Query: 1286 IRDILAQVKQHQKQGSNQAQARRK 1360
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>gi|6753518|ref|NP_034081.1| insulin-like growth factor 2, binding protein 1;
 coding region

determinant binding protein; zipcode-binding protein 1;

zipcode binding protein 1 [Mus musculus]

gi|3273749|gb|AAC72743.1| coding region determinant binding protein [Mus
 musculus]

gi|12851514|dbj|BAB29071.1| coding region determinant binding protein~data
 source:MGD, source

key:MGI:1330862, evidence:ISS~putative [Mus musculus]

Length = 577

Score = 822 bits (2123), Expect = 0.0

Identities = 424/445 (95%), Positives = 425/445 (95%), Gaps = 2/445 (0%)

Frame = +2

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 R AIMKLNHQLNHALKVSYPDEQI QGPENRRGGFGSRGQPRQGSPPVAAGAPAKQQ
 Sbjct: 133 RQAIMKLNHQLNHALKVSYPDEQITQGPENRRGGFGSRGQPRQGSPPVAAGAPAKQQ 192

Query: 212 QVDIPLRLLVPTQYVGAIIGKEGATIRNITKQTQSKIDVHRKENAGAAEKAISVHSTPEG 391
 VDIPLRLLVPTQYVGAIIGKEGATIRNITKQTQSKIDVHRKENAGAAEKAISVHSTPEG

Sbjct: 193 PVDIPLRLLVPTQYVGAIIGKEGATIRNITKQTQSKIDVHRKENAGAAEKAISVHSTPEG 252

Query: 392 CSSACKMILEIMHKEAKDTKTAEVPLKILAHNNFVGRLLIGKEGRNLKKVEQDTETKITI 571
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[Mus musculus]
Length = 441